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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): LEMON et al. ) Group Art Unit: 1648  
Serial No.: 10/580,979 )  
Confirmation No.: 9290 ) Examiner: Unknown  
Filed: 31 May 2006 ) Docket No. 265.00410101

For: **REPLICATION COMPETENT HEPATITIS C VIRUS AND METHODS OF USE**

**Mail Stop Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- An itemized return postcard.  
 An Information Disclosure Statement (2 pgs); copies of 0 applications; 1449 forms (14 pgs); and copies of 120 documents cited on the 1449 forms.  
— Amendment — No Additional fee is required. — The fee has been calculated as shown:

| Fee Calculation for Claims Pending After Amendment                            |                                    |                             |                                   |                           |                          |
|---|------------------------------------|-----------------------------|-----------------------------------|---------------------------|--------------------------|
|   | Pending Claims after Amendment (1) | Claims Paid for Earlier (2) | Number of Additional Claims (1-2) | Cost per Additional Claim | Additional Fees Required |
| Total Claims  |                                    |                             |                                   | x \$50 =                  |                          |
| Independent Claims  |                                    |                             |                                   | x \$200 =                 |                          |
| One or More New Multiple Dependent Claims Presented? If Yes, Add \$360 Here → |                                    |                             |                                   |                           |                          |
| Total Additional Claim Fees Required  |                                    |                             |                                   |                           |                          |

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 18 day of November, 2006.

MUETING, RAASCH & GEBHARDT, P.A.  
Customer Number: 26813

By: David L. Provence  
David L. Provence  
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(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)

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PATENT  
Docket No. 265.00410101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No.: 10/580,979      ) Examiner: Unknown  
Confirmation No.: 9290        )  
                              )  
Filed: 31 May 2006          )  
  
For: REPLICATION COMPETENT HEPATITIS C VIRUS AND METHODS OF USE

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Pursuant to MPEP § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to any pending U.S. Application cited in the 1449 form(s) submitted herewith, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers.

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**Information Disclosure Statement**

Page 2 of 2

Applicant(s): LEMON et al.

Serial No.: 10/580,979

Confirmation No.: 9290

Filed: May 31, 2006

For: REPLICATION COMPETENT HEPATITIS C VIRUS AND METHODS OF USE

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It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 8 day of November, 2006.

  
David L. Provence

Date

November 8, 2006

Respectfully submitted  
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| <b>INFORMATION<br/>DISCLOSURE<br/>STATEMENT</b> | Atty. Docket No.: 265.00410101                                    | Serial No.: 10/580,979  |
|   | Applicant(s): Lemon et al.  | Confirmation. No.: 9290 |
|   | Application Filing Date: May 31, 2006                             | Group: 1648             |
|   | Information Disclosure Statement mailed: November <u>8</u> , 2006 |                         |

### U.S. PATENT DOCUMENTS

| Examiner Initial | Copies Enclosed | Document Number | Date     | Name              | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------------|-----------------|----------|-------------------|-------|----------|----------------------------|
|                  |                 | 5,766,906       | 06/16/98 | Lemon et al.      |       |          |                            |
|                  |                 | 5,846,767       | 12/08/98 | Halpin et al.     |       |          |                            |
|                  |                 | 5,912,167       | 06/15/99 | Palmenberg et al. |       |          |                            |
|                  |                 | 6,127,116       | 10/03/00 | Rice et al.       |       |          |                            |
|                  |                 | 6,630,343       | 10/07/03 | Bartenschlager    |       |          |                            |
|                  |                 | 6,689,559       | 02/10/04 | Wimmer et al.     |       |          |                            |
|                  |                 | 6,921,634       | 07/26/05 | Lemon et al.      |       |          |                            |
|                  |                 | 6,930,095       | 08/16/05 | Bichko            |       |          |                            |
|                  |                 | 2002/0098202    | 07/25/02 | Wimmer et al.     |       |          |                            |
|                  |                 | 2002/0155582    | 10/24/02 | Lemon et al.      |       |          |                            |
|                  |                 | 2003/0073080    | 04/17/03 | Rice et al.       |       |          |                            |
|                  |                 | 2005/0153281    | 07/14/05 | Lemon et al.      |       |          |                            |
|                  |                 | 60/525,989      |          | Lemon et al.      |       |          | 12/01/03                   |

### FOREIGN PATENT DOCUMENTS

| Examiner Initial | Copies Enclosed | Document Number | Date     | Country | Class | Subclass | Translation |    |
|------------------|-----------------|-----------------|----------|---------|-------|----------|-------------|----|
|                  |                 |                 |          |         |       |          | Yes         | No |
|                  | X               | WO 00/14263     | 03/16/00 | PCT     |       |          |             |    |
|                  | X               | WO 05/053516    | 06/16/05 | PCT     |       |          |             |    |

### OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

| Examiner Initial | Copies Enclosed | Document Description  |
|------------------|-----------------|---|
|                  | X               | Ausubel et al., eds., <i>Current Protocols in Molecular Biology</i> , Vol. 1-4, John Wiley & Sons, U.S.; title page, publication page and table of contents only, 12 pgs. (1994). |

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|----------|-----------------|
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|------------------|-----------------|---|
|                  | X               | Bartenschlager et al., "Replication of Hepatitis C Virus," <i>J. Gen. Virol.</i> , July 2000; 81(7): 1631-1648.   |
|                  | X               | Bartosch et al., "Infectious Hepatitis C Virus Pseudo-particles Containing Functional E1-E2 Envelope Protein Complexes," <i>J Exp Med</i> , 3 March 2003; 197(5):633-642.   |
|                  | X               | Beard et al., "An Infectious Molecular Clone of a Japanese Genotype 1b Hepatitis C Virus," <i>Hepatology</i> , 1999 July; 30(1):316-324.  |
|                  | X               | Berger et al., "Secreted Placental Alkaline Phosphatase: A Powerful New Quantitative Indicator of Gene Expression in Eukaryotic Cells," <i>Gene</i> , 1988 June 15; 66(1):1-10.   |
|                  | X               | Bieniasz et al., "Highly Divergent Lentiviral Tat Proteins Activate Viral Gene Expression by a Common Mechanism," <i>Mol. Cell. Biol.</i> , 1999 July; 19(7):4592-9.  |
|                  | X               | "BLAST," National Institutes of Health, Bethesda, MD [online]. Retrieved from Internet on April 17, 2001. <URL: <a href="http://www.ncbi.nlm.nih.gov/gorf/bl2.html">http://www.ncbi.nlm.nih.gov/gorf/bl2.html</a> >, 2 pgs. |
|                  | X               | Blight et al., "Efficient Initiation of HCV RNA Replication in Cell Culture," <i>Science</i> , 2000 Dec 8; 290(5498):1972-1975.   |
|                  | X               | Blight et al., "Highly Permissive Cell Lines for Subgenomic and Genomic Hepatitis C Virus RNA Replication," <i>J. Virol.</i> , December 2002; 76(24):13001-13014.   |
|                  | X               | Blight et al., "Efficient Replication of Hepatitis C Virus Genotype 1a RNAs in Cell Culture," <i>J. Virol.</i> , March 2003; 77(5):3181-3190.   |
|                  | X               | Bukh et al., "Sequence analysis of the 5' noncoding region of hepatitis C virus," <i>Proc. Nat. Acad. Sci. USA</i> , June 1992; 89: 4942-46.  |
|                  | X               | Bukh et al., "Mutations that Permit Efficient Replication of Hepatitis C Virus RNA in Huh-7 Cells Prevent Productive Replication in Chimpanzees," <i>Proc. Natl. Acad. Sci. USA</i> , 2002 Oct. 29; 99(22):14416-14421.     |

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| Examiner Initial | Copies Enclosed | Document Description   |
|------------------|-----------------|--|
|                  | X               | Cai et al., "Robust Production of Infectious Hepatitis C Virus (HCV) from Stably HCV cDNA-Transfected Human Hepatoma Cells," <i>Journal of Virology</i> , 2005 November, 79(22):13963-13973.                                     |
|                  | X               | Choo et al., "Genetic Organization and Diversity of the Hepatitis C Virus," <i>Proc. Natl. Acad. Sci. USA</i> , 1991 March; 88(6):2451-2455.   |
|                  | X               | Cullen, "Trans-activation of Human Immunodeficiency Virus Occurs via a Bimodal Mechanism," <i>Cell</i> . 1986 September 26;46(7):973-82.   |
|                  | X               | Cullen, Bryan R., "HIV-1 Auxiliary Proteins: Making Connections in a Dying Cell," <i>Cell</i> , 29 May 1998; 93:685-92.  |
|                  | X               | Date et al., "Genotype 2a Hepatitis C Virus Subgenomic Replicon Can Replicate in HepG2 and IMY-N9 Cells," <i>J. Biol. Chem.</i> , 2004 May 21; 279(21):22371-22376.  |
|                  | X               | Duhamel et al., "Secondary structure content of the HDV ribozyme in 95% formamide," <i>Nucleic Acids Research</i> , 1996;24(20):3911-3917.   |
|                  | X               | Enomoto et al., "There are Two Major Types of Hepatitis C Virus in Japan," <i>Biochem. Biophys. Res. Commun.</i> , 1990 August 16; 170(3):1021-1025.   |
|                  | X               | Evans et al., "Phosphorylation of hepatitis C virus nonstructural protein 5A modulates its protein interactions and viral RNA replication," <i>PNAS</i> , 31 August 2004;101(35):13038-13043.                                    |
|                  | X               | Forns et al., "Hepatitis C Virus Lacking the Hypervariable Region 1 of the Second Envelope Protein Is Infectious and Causes Acute Resolving or Persistent Infection in Chimpanzees," <i>PNAS</i> , 2000 Nov 21; 97(24):13318-23. |
|                  | X               | Foy et al., "Regulation of Interferon Regulatory Factor-3 by the Hepatitis C Virus Serine Protease," <i>Science</i> , 2003 May 16; 300(5622):1145-1148.  |
|                  | X               | Foy et al., "Control of antiviral defenses through hepatitis C virus disruption of retinoic acid-inducible gene-I signaling," <i>PNAS</i> , 22 February 2005;102(8):2986-2991.   |

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|                  | X               | Frese et al., "Interferon- $\alpha$ inhibits hepatitis C virus subgenomic RNA replication by an MxA-independent pathway," <i>J. Gen. Virol.</i> , 2001 Apr; 82(pt.4):723-33.  |
|                  | X               | Fried et al., "Peginterferon Alfa-2a Plus Ribavirin for Chronic Hepatitis C Virus Infection," <i>N. Engl. J. Med.</i> , 2002 September 26; 347(13):975-982.   |
|                  | X               | Fujisawa et al., "The Indirect Association of Human T-cell Leukemia Virus tax Protein with DNA Results in Transcriptional Activation," <i>J. Virol.</i> , 1991 August; 65(8):4525-4528.   |
|                  | X               | Gale et al., "Repression of the PKR Protein Kinase by the Hepatitis C Virus NS5A Protein: a Potential Mechanism of Interferon Resistance," <i>Clin. Diagn. Virol.</i> , 1998 July; 10(2-3):157-162.   |
|                  | X               | Gale et al., "Evidence that hepatitis C virus resistance to Interferon is mediated through repression of the PKR protein kinase by the nonstructural 5A protein," <i>Virology</i> , 1997;230:217-227.   |
|                  | X               | Graham et al., "A genotype 2b NS5B polymerase with novel substitutions supports replication of a chimeric HCV 1b:2b replicon containing a genotype 1b NS3-5A background," <i>Antiviral Research</i> , January 2006; 69(1):24-30.  |
|                  | X               | Grobler et al., "Identification of a Key Determinant of Hepatitis C Virus Cell Culture Adaptation in Domain II of NS3 Helicase," <i>J. Biol. Chem.</i> , 9 May 2003; 278(19):16741-16746.   |
|                  | X               | Gu et al., "Replication Studies Using Genotype 1a Subgenomic Hepatitis C Virus Replicons", <i>J. Virol.</i> , May 2003; 77(9):5352-5359.  |
|                  | X               | Guo et al., "Identification of a Novel RNA Species in Cell Lines Expressing HCV Subgenomic Replicons," Abstract P045, 7th International Meeting on Hepatitis C Virus and Related Viruses (Molecular Virology and Pathogenesis), The Marriott Resort Hotel, Gold Coast, Queensland, Australia, December 3-7, 2000; 1 pg. |
|                  | X               | Guo et al., "Effect of Alpha Interferon on the Hepatitis C Virus Replicon," <i>J. Virol.</i> , September 2001; 75(18):8516-8523.  |

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|                  | X               | Hadzopoulou-Cladaras et al., "The <i>rev</i> ( <i>trs/art</i> ) Protein of Human Immunodeficiency Virus Type 1 Affects Viral mRNA and Protein Expression via a <i>cis</i> -acting Sequence in the <i>env</i> Region," <i>J. Virol.</i> , 1989 March; 63(3): 1265-1274. |
|                  | X               | Harlow et al., <i>Antibodies: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY; title page, publisher's page, and table of contents, 9 pages (1988).  |
|                  | X               | Hayashi et al., "Molecular cloning and heterogeneity of the human hepatitis C virus (HCV) genome," <i>J. Hepatol.</i> , 1993;17 (Suppl. 3): S94-S107.  |
|                  | X               | Heller et al., "An in vitro model of hepatitis C virion production," <i>PNAS</i> , 15 February 2005;102(7):2579-2583. Published online 8 February 2005.  |
|                  | X               | Honda et al., "Stability of a stem-loop involving the initiator AUG controls the efficiency of internal initiation of translation of hepatitis C virus RNA," <i>RNA</i> , 1996;2: 955-68.  |
|                  | X               | Hsu et al., "Hepatitis C virus glycoproteins mediate pH-dependent cell entry of pseudotyped retroviral particles," <i>PNAS</i> , 10 June 2003;100(12): 7271-7276.  |
|                  | X               | Ikeda et al., "Human Hepatocyte Clonal Cell Lines that Support Persistent Replication of Hepatitis C Virus," <i>Virus Res.</i> , 1998 Aug.; 56(2):157-167.   |
|                  | X               | Ikeda et al., "Selectable Subgenomic and Genome-Length Dicistronic RNAs Derived from an Infectious Molecular Clone of the HCV-N Strain of Hepatitis C Virus Replicate Efficiently in Cultured Huh7 Cells," <i>J. Virol.</i> , Mar. 2002;76(6): 2997-3006.              |
|                  | X               | Inchauspe et al., "Genomic Structure of the Human Prototype Strain H of Hepatitis C Virus: Comparison with American and Japanese Isolates", <i>Proc. Natl. Acad. Sci. USA</i> , 1991 November 15; 88(22):10292-10296.  |
|                  | X               | Kanda et al., "Generation of Infectious Hepatitis C Virus in Immortalized Human Hepatocytes," <i>Journal of Virology</i> , 2006 May; 80(9):4633-4639.  |
|                  | X               | Kato et al., "Replication of hepatitis C virus in cultured non-neoplastic human hepatocytes," <i>Jpn. J. Cancer Research</i> , August 1996;87:787-792.   |

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|                  | X               | Kato et al., "Susceptibility of Human T-Lymphotropic Virus Type I Infected Cell Line MT-2 to Hepatitis C Virus Infection," <i>Biochem. Biophys. Res. Commun.</i> , 1995 Jan.; 206(3):863-869.   |
|                  | X               | Kato et al., "Efficient Replication of the Genotype 2a Hepatitis C Virus Subgenomic Replicon," <i>Gastroenterology</i> , 2003 Dec.; 125(6):1808-1817.   |
|                  | X               | Kato, "Molecular Virology of Hepatitis C Virus," <i>Acta Medica Okayama</i> , 2001;55(3):133-159.   |
|                  | X               | Kim et al., "Domains I and II in the 5' Nontranslated Region of the HCV Genome Are Required for RNA Replication," <i>Biochem. Biophys. Res. Comm.</i> , 2002; 290: 105-112.   |
|                  | X               | Knowles et al., "Human hepatocellular carcinoma cell lines secrete the major plasma proteins and hepatitis B surface antigen," <i>Science</i> , July 1980;209(25):497-499.  |
|                  | X               | Kolykhalov et al., "Identification of a Highly Conserved Sequence Element at the 3' Terminus of Hepatitis C Virus Genome RNA," <i>J. Virol.</i> , 1996 June; 70(6):3363-71.   |
|                  | X               | Kolykhalov et al., "Hepatitis C Virus-Encoded Enzymatic Activities and Conserved RNA Elements in the 3' Nontranslated Region Are Essential for Virus Replication In Vivo," <i>J. Virol.</i> , 2000 February; 74(4):2046-2051.                                       |
|                  | X               | Krieger et al., "Enhancement of Hepatitis C Virus RNA Replication by Cell Culture-Adaptive Mutations," <i>J. Virol.</i> , May 2001; 75:4614-4624.   |
|                  | X               | Lai et al., "Generation and Characterization of a Hepatitis C Virus NS3 Protease-Dependent Bovine Viral Diarrhea Virus," <i>J. Virol.</i> , 2000 July; 74(14):6339-6347.  |
|                  | X               | Lanford et al., "Lack of Detection of Negative-Strand Hepatitis C Virus RNA in Peripheral Blood Mononuclear Cells and Other Extrahepatic Tissues by the Highly Strand-specific rTth Reverse Transcriptase PCR," <i>J. Virol.</i> , 1995 December; 69(12):8079-8083. |

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|                  | X               | Lanford et al., "Anti-viral Effect and Virus-Host Interactions in Response to Alpha Interferon, Gamma Interferon, Poly(I)-Poly(C), Tumor Necrosis Factor Alpha, and Ribavirin in Hepatitis C Virus Subgenomic Replicons," <i>J. Virol.</i> , 2003 January., 77(2):1092-1104.   |
|                  | X               | Le Pogam et al., "Comparison of DNA Enzyme Immunoassay and Line Probe Assays (Inno-LiPA HCV I and II) for Hepatitis C Virus Genotyping," <i>J. Clin. Microbiol.</i> , 1998 May; 36(5):1461-1463.   |
|                  | X               | Lemon, "Selection of Cell Culture-adapted Hepatitis C RNA," Grant Abstract for Grant No. 2U19AI40035-050001 [online]. National Institute of Allergy and Infectious Diseases, National Institutes of Health; project dates 01-AUG-96 to 31-JUL-05. Retrieved from the Internet on April 17, 2001; URL: < <a href="http://commons.cit.nih.gov/crisp/crisp_lib.getdoc?textkey=6340699&amp;p_query=&amp;ticket=1907498&amp;p_audit_session_id=4197699&amp;p_keywords=&gt;">http://commons.cit.nih.gov/crisp/crisp_lib.getdoc?textkey=6340699&amp;p_query=&amp;ticket=1907498&amp;p_audit_session_id=4197699&amp;p_keywords=&gt;</a> , 2 pages.   |
|                  | X               | Lemon, "The Southeastern Cooperative Hepatitis C Research Group," Grant Abstract for Grant No. 2U19AI40035-05 [online]. National Institute of Allergy and Infectious Diseases, National Institutes of Health; project dates 01-Aug-96 to 31-Jul-05. Retrieved from the Internet on April 17, 2001; URL: < <a href="http://commons.cit.nih.gov/crisp/crisp_lib.getdoc?textkey=6199426&amp;p_query=&amp;ticket=1907498&amp;p_audit_session_id=4197699&amp;p_keywords=&gt;">http://commons.cit.nih.gov/crisp/crisp_lib.getdoc?textkey=6199426&amp;p_query=&amp;ticket=1907498&amp;p_audit_session_id=4197699&amp;p_keywords=&gt;</a> , 2 pages. |
|                  | X               | Li et al., "Cellular response to conditional expression of Hepatitis C virus core protein in Huh7 cultured human hepatoma cells," <i>Hepatology</i> , May 2002;35(5): 1237-1246.   |
|                  | X               | Li et al., "Immune evasion by hepatitis C virus NS3/4A protease-mediated cleavage of the Toll-like receptor 3 adaptor protein TRIF," <i>PNAS</i> , 22 February 2005;102(8):2992-2997.  |
|                  | X               | Lohmann et al. "Replication of Subgenomic Hepatitis C Virus RNAs in a Hepatoma Cell Line," <i>Science</i> , 1999 July 2; 285(5424):110-113.  |
|                  | X               | Lohmann et al., "Adaptation of Selectable HCV Replicon to a Human Hepatoma Cell Line," Abstract P038, 7th International Meeting on Hepatitis C Virus and Related Viruses (Molecular Virology and Pathogenesis), The Marriott Resort Hotel, Gold Coast, Queensland, Australia, December 3-7, 2000; 1 pg.  |

| EXAMINER | Date Considered |
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|---|--|--------------------------------|
| <b>INFORMATION DISCLOSURE STATEMENT</b> | <b>Atty. Docket No.:</b> 265.00410101        | <b>Serial No.:</b> 10/580,979  |
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|   | Information Disclosure Statement mailed:     | November <u>8</u> , 2006       |

| Examiner Initial | Copies Enclosed | Document Description  |
|------------------|-----------------|---|
|                  | X               | Lohmann et al. "Mutations in Hepatitis C Virus RNAs Conferring Cell Culture Adaptation," <i>J. Virol.</i> 2001 February; 75(3):1437-49.   |
|                  | X               | Lohmann et al., "Viral and Cellular Determinants of Hepatitis C Virus RNA Replication in Cell Culture," <i>J. Virol.</i> , 2003 March., 77(5):3007-3019.  |
|                  | X               | McHutchison et al., "Current Therapy for Hepatitis C: Pegylated Interferon and Ribavirin," <i>Clin. Liver Dis.</i> , 2003 February.; 7(1):149-161.  |
|                  | X               | McKeating et al., "Diverse Hepatitis C Virus Glycoproteins Mediate Viral Infection in a CD81-Dependent Manner," <i>Journal of Virology</i> , August 2004;78(16):8496-8505.  |
|                  | X               | Murray et al., "Persistent Replication of Hepatitis C Virus Replicons Expressing the $\beta$ -Lactamase Reporter in Subpopulations of Highly Permissive Huh7 Cells," <i>Journal of Virology</i> , 2003 March, 77(5):2928-2935.  |
|                  | X               | Nakano et al., "General Acid-Base Catalysis in the Mechanism of Hepatitis Delta Virus Ribozyme," <i>Science</i> , 25 February 2000;287:1493-1497.   |
|                  | X               | Naryshkin et al., "RNA Recognition and Regulation of HIV-1 Gene Expression by Viral Factor Tat," <i>Biochemistry</i> , 1998;63(5): 489-503.   |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. AB030907, Accession No. AB030907, "Hepatitis C virus type 2b gene for polyprotein, complete cds, isolate:JPUT971017," [online]. Retrieved from the Internet on April 17, 2001:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=9757541&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=9757541&amp;dopt=GenBank</a> >, 8 pages. |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. AF011751, Accession No. AF011751, "Hepatitis C virus strain H77 pCV-H77C polyprotein gene, complete cds," [online]. Retrieved from the Internet on April 26, 2001:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=2327070&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=2327070&amp;dopt=GenBank</a> >, 7 pages.             |

| EXAMINER | Date Considered |
|----------|-----------------|
|          |                 |

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| Examiner Initial | Copies Enclosed | Document Description   |
|------------------|-----------------|--|
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. AF033819, Accession No. AF033819, "HIV-1, complete genome," [online]. Retrieved from the Internet on April 17, 2001:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=4558520&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=4558520&amp;dopt=GenBank</a> >, 9 pages.                              |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. AF139594, Accession No. AF139594, "Hepatitis C virus strain HCV-N, complete genome," [online]. Retrieved from the Internet on April 17, 2001:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=5532421&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=5532421&amp;dopt=GenBank</a> >, 7 pages.     |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. AF238481, Accession No. AF238481, "Hepatitis C virus 2a polyprotein gene, complete cds," [online]. Retrieved from the Internet on April 17, 2001:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=7329200&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=7329200&amp;dopt=GenBank</a> >, 6 pages. |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. SSE242652, Accession No. AJ242652, "Hepatitis C virus replicon I377/NS3-3'UTR," [online]. Retrieved from the Internet on February 18, 2003:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=5441834&amp;dopt=GenBank">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;db=Nucleotide&amp;list_uids=5441834&amp;dopt=GenBank</a> >, 7 pages.       |
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. HCJ238799, Accession No. AJ238799, "Hepatitis C virus type 1b complete genome, isolate Con1," [online]. Retrieved from the Internet on October 24, 2006:<URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&amp;val=5420376">http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&amp;val=5420376</a> >, 8 pages.  |

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| Examiner Initial | Copies Enclosed | Document Description  |
|------------------|-----------------|---|
|                  | X               | National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, GenBank Locus No. HPCCGAA, Accession No. M67463, "Hepatitis C virus, complete genome," [online]. Retrieved from the Internet on October 24, 2006:<URL: http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=329737>, 7 pgs. |
|                  | X               | Neddermann et al., "Hyperphosphorylation of the Hepatitis C Virus NS5A Protein Requires an Active NS3 Protease, NS4A, NS4B, and NS5A Encoded on the Same Polyprotein," <i>Journal of Virology</i> , December 1999;73(12):9984-9991.   |
|                  | X               | Noguchi et al., "Cell lines from non-neoplastic liver and hepatocellular carcinoma tissue from a single patient," <i>In Vitro Cell Dev. Biol. Anim.</i> , March 1996;32:135-137.  |
|                  | X               | Noguchi et al., "Routes of transmission of hepatitis C virus in an endemic rural area of Japan- Molecular epidemiologic study of hepatitis C virus infection," <i>Scand J. Infect. Diseases</i> , 1997;29:23-28.  |
|                  | X               | Ohno et al., "New Hepatitis C Virus (HCV) Genotyping System that Allows for Identification of HCV Genotypes 1a, 1b, 2a, 2b, 3a, 3b, 4, 5a, and 6a," <i>J. Clin. Microbiol.</i> , 1997 Jan.; 35(1):201-207.  |
|                  | X               | Pelletier, et al., "Internal Initiation of Translation of Eukaryotic mRNA Directed by a Sequence Derived from Poliovirus RNA," <i>Nature</i> , 1988 Jul. 28; 334(6180):320-325.   |
|                  | X               | Perrotta et al., "Core Sequences and a Cleavage Site Wobble Pair Required for HDV Antigenomic Ribozyme Self-Cleavage," <i>Nucleic Acids Res.</i> , 1996 Apr.; 24(7):1314-1321.  |
|                  | X               | Pietschmann et al., "Persistent and transient replication of full-length hepatitis C virus genomes in cell culture," <i>J Virology</i> , 2002;76:4008-4021.   |
|                  | X               | Pietschmann et al., "Characterization of Cell Lines Carrying Self-Replicating Hepatitis C Virus RNAs," <i>J. Virol.</i> , February 2001;75: 1252-64.  |

| EXAMINER | Date Considered |
|----------|-----------------|
|          |                 |

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|   | Information Disclosure Statement mailed:     | November <u>8</u> , 2006       |

| Examiner Initial | Copies Enclosed | Document Description  |
|------------------|-----------------|---|
|                  | X               | Rethwilm et al., "The Transcriptional Transactivator of Human Foamy Virus Maps to the <i>bel 1</i> Genomic Region," <i>Proc. Natl. Acad. Sci. USA</i> , 1991 February 1; 88(3):941-945.   |
|                  | X               | Reynolds et al., "Unique features of internal initiation of hepatitis C virus RNA translation," <i>EMBO J.</i> , September 1995; 14(9): 6010-20.  |
|                  | X               | Reynolds et al., "Internal initiation of translation of hepatitis C virus RNA: The ribosome entry site is at the authentic initiation codon," <i>RNA</i> , 1996; 2: 867-78.   |
|                  | X               | Rijnbrand et al., "The influence of downstream protein-coding sequence on internal ribosome entry on hepatitis C virus and other flavivirus RNAs," <i>RNA</i> , September 2001; 7(4):585-97.  |
|                  | X               | Ryan et al., "Foot-and-Mouth Disease Virus 2A Oligopeptide Mediated Cleavage of an Artificial Polyprotein," <i>EMBO J.</i> , 1994 Feb 15; 13(4):928-33.   |
|                  | X               | Sandres et al., "Genetic Heterogeneity of Hypervariable Region 1 of the Hepatitis C Virus (HCV) Genome and Sensitivity of HCV to Alpha Interferon Therapy," <i>J. Virol.</i> , 2000 Jan.; 74(2):661-668.  |
|                  | X               | Scholle et al., "Virus-Host Cell Interactions during Hepatitis C Virus RNA Replication: Impact of Polyprotein Expression on the Cellular Transcriptome and Cell Cycle Association with Viral RNA Synthesis," <i>J. Virol.</i> , 2004 Feb.; 78(3):1513-1524. |
|                  | X               | Shimizu et al., "Infection of a Chimpanzee with Hepatitis C Virus Grown in Cell Culture," <i>J. Gen. Virol.</i> , 1998 Jun.; 79(Pt.6):1383-1386.  |
|                  | X               | Silini et al., "Sequence Variation in the Hypervariable Region 1 of Hepatitis C Virus and Posttransplantation Recurrent Hepatitis," <i>Liver Transpl.</i> , 2003 Oct.; 9(10):1040-1047.   |
|                  | X               | Simmonds, "Variability of Hepatitis C Virus," <i>Hepatology</i> , 1995 Feb; 21(2):570-583.  |
|                  | X               | Simmonds, "Viral Heterogeneity of the Hepatitis C Virus," <i>J. Hepatol.</i> , 1999; 31(Suppl.1):54-60.   |

| EXAMINER | Date Considered |
|----------|-----------------|
|          |                 |

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| Examiner Initial | Copies Enclosed | Document Description   |
|------------------|-----------------|--|
|                  | X               | Simmonds et al., "Classification of Hepatitis C Virus into Six Major Genotypes and a Series of Subtypes by Phylogenetic Analysis of the NS-5 Region," <i>J. Gen. Virol.</i> , 1993 Nov.; 74(Pt 11):2391-2399.                  |
|                  | X               | Smith et al., "Variation of the Hepatitis C Virus 5' Non-Coding Region: Implications for Secondary Structure, Virus Detection and Typing", <i>J. Gen. Virol.</i> , 1995 July.; 76 (Pt. 7):1749-1761.                           |
|                  | X               | Takeuchi et al., "Real-time Detection System for Quantification of Hepatitis C Virus Genome," <i>Gastroenterology</i> , 1999 Mar; 116(3):636-42.   |
|                  | X               | Tatusova, et al. "BLAST 2 Sequences, a New Tool for Comparing Protein and Nucleotide Sequences," <i>FEMS Microbiol. Lett.</i> , 1999 May 15; 174(2):247-50.  |
|                  | X               | Tautz et al., "Processing of Poly-ubiquitin in the Polyprotein of an RNA Virus," <i>Virology</i> , 1993 Nov; 197(1):74-85.   |
|                  | X               | Tokita et al., "The Entire Nucleotide Sequences of Three Hepatitis C Virus Isolates in Genetic Groups 7-9 and Comparison with Those in the Other Eight Genetic Groups," <i>J. Gen. Virol.</i> , 1998 Aug.; 79(Pt 8):1847-1857. |
|                  | X               | Whetter et al., "Analysis of Hepatitis A Virus Translation in a T7 Polymerase-expressing Cell Line," <i>Arch. Virol. Suppl.</i> , 1994; 9:291-8.   |
|                  | X               | Whetter et al., "Low Efficiency of the 5' Nontranslated Region of Hepatitis A Virus RNA in Directing Cap-Independent Translation in Permissive Monkey Kidney Cells," <i>J. Virol.</i> , 1994; 68:5253-5263.                    |
|                  | X               | Wright-Minogue et al., "Cross-Genotypic Interaction Between Hepatitis C Virus NS3 Protease Domains and NS4A Cofactors," <i>J. Hepatol.</i> , 2000 Mar., 32(3):497-504.   |
|                  | X               | Xu et al., "Synthesis of a novel hepatitis C virus protein by ribosomal frameshift," <i>EMBO J.</i> , July 2001; 20(14):3840-3848.   |
|                  | X               | Yamada et al., "Genetic Organization and Diversity of the 3' Noncoding Region of the Hepatitis C Virus Genome," <i>Virology</i> , 1996 Sep 1; 223(1):255-261.  |

| EXAMINER | Date Considered |
|----------|-----------------|
|          |                 |

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|   | Information Disclosure Statement mailed:     | November <u>8</u> , 2006       |

| Examiner Initial | Copies Enclosed | Document Description   |
|------------------|-----------------|--|
|                  | X               | Yanagi et al., "Transcripts from a Single Full-length cDNA Clone of Hepatitis C Virus Are Infectious When Directly Transfected into the Liver of a Chimpanzee," <i>Proc. Natl. Acad. Sci. U S A</i> , 1997 Aug 5; 94(16):8738-8743.  |
|                  | X               | Yanagi et al., "In vivo Analysis of the 3' Untranslated Region of the Hepatitis C Virus after <i>in vitro</i> Mutagenesis of an Infectious cDNA Clone," <i>Proc. Natl. Acad. Sci. U S A</i> , 1999 Mar 2; 96(5):2291-2295.   |
|                  | X               | Yao et al., "Molecular Views of Viral Polyprotein Processing Revealed by the Crystal Structure of the Hepatitis C Virus Bifunctional Protease-Helicase," <i>Structure</i> , 1999 Nov., 7(11):1353-1363.  |
|                  | X               | Yi et al., "Infectious Discistronic Hepatitis C Virus (HCV) RNA That Facilitates the Rescue of Virus from Synthetic RNA and the Monitoring of Viral Replication in Cultured Cells," presented at 7th International Meeting on Hepatitis C Virus and Related Viruses (Molecular Virology and Pathogenesis), The Marriott Resort Hotel, Gold Coast, Queensland, Australia, December 3-7, 2000; abstract and poster (30 pages). |
|                  | X               | Yi et al., "Subgenomic Hepatitis C Virus Replicons Inducing Expression of a Secreted Enzymatic Reporter Protein," <i>Virology</i> , 2002 Dec. 20; 304(2):197-210.  |
|                  | X               | Yi et al., "3' Nontranslated RNA Signals Required for Replication of Hepatitis C Virus RNA," <i>J. Virol.</i> , 2003 March; 77(6):3557-3568.   |
|                  | X               | Yi et al., "Structure-Function Analysis of the 3' Stem-Loop of Hepatitis C Virus Genomic RNA and its Role in Viral RNA Replication," <i>RNA</i> , 2003 March, 9(3):331-345.  |
|                  | X               | Yi et al., "Adaptive Mutations Producing Efficient Replication of Genotype 1a Hepatitis C Virus RNA in Normal Huh7 Cells," <i>Journal of Virology</i> , August 2004;78(15): 7904-7915.   |
|                  | X               | Yoo et al., "Transfection of a Differentiated Human Hepatoma Cell Line (Huh7) with In Vitro-transcribed Hepatitis C Virus (HCV) RNA and Establishment of a Long-term Culture Persistently Infected with HCV," <i>J. Virol.</i> , 1995 Jan; 69(1):32-38.  |

| EXAMINER | Date Considered |
|----------|-----------------|
|          |                 |

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| Examiner Initial | Copies Enclosed | Document Description  |
|------------------|-----------------|---|
|                  | X               | Zhong et al., "Robust hepatitis C virus infection in vitro," <i>PNAS</i> , 28 June 2005; <i>102</i> (26):9294-9299.   |
|                  | X               | Zhu et al., "Replication of Hepatitis C Virus Subgenomes in Nonhepatic Epithelial and Mouse Hepatoma Cells," <i>J. Virol.</i> , 2003 Sept., <i>77</i> (17):9204-9210. |

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| <b>EXAMINER</b><br><br>/Bao Li/ | <b>Date Considered</b><br><br>02/21/2009 |
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